

Sequence Listing

<110> Ashkenazi, Avi J.
Baker, Kevin
Gurney, Austin
Wood, William

<120> Apo-2DcR

<130> P1110

<140> US 08/878,168

<141> 1997-06-18

<160> 17

<210> 1

<211> 259

<212> PRT

<213> Homo sapiens

<400> 1

Met	Ala	Arg	Ile	Pro	Lys	Thr	Leu	Lys	Phe	Val	Val	Val	Ile	Val
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Ala	Val	Leu	Leu	Pro	Val	Leu	Ala	Tyr	Ser	Ala	Thr	Thr	Ala	Arg
				20					25					30

Gln	Glu	Glu	Val	Pro	Gln	Gln	Thr	Val	Ala	Pro	Gln	Gln	Gln	Arg
				35					40					45

His	Ser	Phe	Lys	Gly	Glu	Glu	Cys	Pro	Ala	Gly	Ser	His	Arg	Ser
				50					55					60

Glu	His	Thr	Gly	Ala	Cys	Asn	Pro	Cys	Thr	Glu	Gly	Val	Asp	Tyr
				65					70					75

Thr	Asn	Ala	Ser	Asn	Asn	Glu	Pro	Ser	Cys	Phe	Pro	Cys	Thr	Val
				80					85					90

Cys	Lys	Ser	Asp	Gln	Lys	His	Lys	Ser	Ser	Cys	Thr	Met	Thr	Arg
				95					100					105

Asp	Thr	Val	Cys	Gln	Cys	Lys	Glu	Gly	Thr	Phe	Arg	Asn	Glu	Asn
				110					115					120

Ser	Pro	Glu	Met	Cys	Arg	Lys	Cys	Ser	Arg	Cys	Pro	Ser	Gly	Glu
				125					130					135

Val	Gln	Val	Ser	Asn	Cys	Thr	Ser	Trp	Asp	Asp	Ile	Gln	Cys	Val
				140					145					150

Revised

Glu Glu Phe Gly Ala Asn Ala Thr Val Glu Thr Pro Ala Ala Glu
155 160 165

Glu Thr Met Asn Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu
170 175 180

Glu Thr Met Asn Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu
185 190 195

Glu Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu
200 205 210

Glu Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu
215 220 225

Glu Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Ser Ser His Tyr
230 235 240

Leu Ser Cys Thr Ile Val Gly Ile Ile Val Leu Ile Val Leu Leu
245 250 255

Ile Val Phe Val
259

<210> 2
<211> 1180
<212> DNA
<213> Homo sapiens

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<222> (193) . . . (969)
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atttttgga gtttgaccag agatgcaagg ggtgaaggag cgcttcctac 100
cgttagggaa ctctggggac agagcgcccc ggccgcctga tggccgaggc 150
agggtgcgac ccaggacca ggacggcgtc gggaaccata cc atg 195
Met
1

gcc cgg atc ccc aag acc cta aag ttc gtc gtc gtc atc 234
Ala Arg Ile Pro Lys Thr Leu Lys Phe Val Val Val Ile
5 10

gtc gcg gtc ctg ctg cca gtc cta gct tac tct gcc acc 273

Dubay

Val Ala Val Leu Leu Pro Val Leu Ala Tyr Ser Ala Thr
15 20 25

act gcc cgg cag gag gaa gtt ccc cag cag aca gtg gcc 312
Thr Ala Arg Gln Glu Glu Val Pro Gln Gln Thr Val Ala
30 35 40

cca cag caa cag agg cac agc ttc aag ggg gag gag tgt 351
Pro Gln Gln Gln Arg His Ser Phe Lys Gly Glu Glu Cys
45 50

cca gca gga tct cat aga tca gaa cat act gga gcc tgt 390
Pro Ala Gly Ser His Arg Ser Glu His Thr Gly Ala Cys
55 60 65

aac ccg tgc aca gag ggt gtg gat tac acc aac gct tcc 429
Asn Pro Cys Thr Glu Gly Val Asp Tyr Thr Asn Ala Ser
70 75

aac aat gaa cct tct tgc ttc cca tgt aca gtt tgt aaa 468
Asn Asn Glu Pro Ser Cys Phe Pro Cys Thr Val Cys Lys
80 85 90

tca gat caa aaa cat aaa agt tcc tgc acc atg acc aga 507
Ser Asp Gln Lys His Lys Ser Ser Cys Thr Met Thr Arg
95 100 105

gac aca gtg tgt cag tgt aaa gaa ggc acc ttc cgg aat 546
Asp Thr Val Cys Gln Cys Lys Glu Gly Thr Phe Arg Asn
110 115

gaa aac tcc cca gag atg tgc cgg aag tgt agc agg tgc 585
Glu Asn Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys
120 125 130

cct agt ggg gaa gtc caa gtc agt aat tgt acg tcc tgg 624
Pro Ser Gly Glu Val Gln Val Ser Asn Cys Thr Ser Trp
135 140

gat gat atc cag tgt gtt gaa gaa ttt ggt gcc aat gcc 663
Asp Asp Ile Gln Cys Val Glu Glu Phe Gly Ala Asn Ala
145 150 155

act gtg gaa acc cca gct gct gaa gag aca atg aac acc 702
Thr Val Glu Thr Pro Ala Ala Glu Glu Thr Met Asn Thr
160 165 170

agc ccg ggg act cct gcc cca gct gct gaa gag aca atg 741
Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met
175 180

Sub-G1

aac acc agc cca ggg act cct gcc cca gct gct gaa gag 780
Asn Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu
185 190 195

aca atg acc acc agc ccg ggg act cct gcc cca gct gct 819
Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala
200 205

gaa gag aca atg acc acc agc ccg ggg act cct gcc cca 858
Glu Glu Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Pro
210 215 220

gct gct gaa gag aca atg acc acc agc ccg ggg act cct 897
Ala Ala Glu Glu Thr Met Thr Thr Ser Pro Gly Thr Pro
225 230 235

gcc tct tct cat tac ctc tca tgc acc atc gta ggg atc 936
Ala Ser Ser His Tyr Leu Ser Cys Thr Ile Val Gly Ile
240 245

ata gtt cta att gtg ctt ctg att gtg ttt gtt t 970
Ile Val Leu Ile Val Leu Leu Ile Val Phe Val
250 255 259

gaaagacttc actgtggaag aaattccttc cttacctgaa aggttcaggt 1020

aggcgctggc tgagggcggg gggcgctgga cactctctgc cctgcctccc 1070

tctgctgtgt tcccacagac agaaacgcct gccctgccc caaaaaaaaa 1120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1170

aaaaaaaaaa 1180

<210> 3

<211> 299

<212> PRT

<213> Homo sapiens

<400> 3

Met Gln Gly Val Lys Glu Arg Phe Leu Pro Leu Gly Asn Ser Gly
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Asp Arg Ala Pro Arg Pro Pro Asp Gly Arg Gly Arg Val Arg Pro
20 25 30

Arg Thr Gln Asp Gly Val Gly Asn His Thr Met Ala Arg Ile Pro
35 40 45

Lys Thr Leu Lys Phe Val Val Val Ile Val Ala Val Leu Leu Pro
50 55 60

0909094-11901

2061

Val Leu Ala Tyr Ser Ala Thr Thr Ala Arg Gln Glu Glu Val Pro
65 70 75

Gln Gln Thr Val Ala Pro Gln Gln Gln Arg His Ser Phe Lys Gly
80 85 90

Glu Glu Cys Pro Ala Gly Ser His Arg Ser Glu His Thr Gly Ala
95 100 105

Cys Asn Pro Cys Thr Glu Gly Val Asp Tyr Thr Asn Ala Ser Asn
110 115 120

Asn Glu Pro Ser Cys Phe Pro Cys Thr Val Cys Lys Ser Asp Gln
125 130 135

Lys His Lys Ser Ser Cys Thr Met Thr Arg Asp Thr Val Cys Gln
140 145 150

Cys Lys Glu Gly Thr Phe Arg Asn Glu Asn Ser Pro Glu Met Cys
155 160 165

Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu Val Gln Val Ser Asn
170 175 180

Cys Thr Ser Trp Asp Asp Ile Gln Cys Val Glu Glu Phe Gly Ala
185 190 195

Asn Ala Thr Val Glu Thr Pro Ala Ala Glu Glu Thr Met Asn Thr
200 205 210

Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Asn Thr
215 220 225

Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr
230 235 240

Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr
245 250 255

Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr
260 265 270

Ser Pro Gly Thr Pro Ala Ser Ser His Tyr Leu Ser Cys Thr Ile
275 280 285

Val Gly Ile Ile Val Leu Ile Val Leu Leu Ile Val Phe Val
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<210> 4
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<221> sig_peptide
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 Arg Phe Leu Pro Leu Gly Asn Ser Gly Asp Arg Ala Pro
 -30 -25

cgg ccg cct gat ggc cga ggc agg gtg cga ccc agg acc 168
 Arg Pro Pro Asp Gly Arg Gly Arg Val Arg Pro Arg Thr
 -20 -15 -10

cag gac ggc gtc ggg aac cat acc atg gcc cgg atc ccc 207
Gln Asp Gly Val Gly Asn His Thr Met Ala Arg Ile Pro
-5 1 5

aag acc cta aag ttc gtc gtc gtc atc gtc gcg gtc ctg 246
Lys Thr Leu Lys Phe Val Val Val Ile Val Ala Val Leu
10 15

ctg cca gtc cta gct tac tct gcc acc act gcc cgg cag 285
Leu Pro Val Leu Ala Tyr Ser Ala Thr Thr Ala Arg Gln
20 25 30

gag gaa gtt ccc cag cag aca gtg gcc cca cag caa cag 324
Glu Glu Val Pro Gln Gln Thr Val Ala Pro Gln Gln Gln
35 40

agg cac agc ttc aag ggg gag gag tgt cca gca gga tct 363
Arg His Ser Phe Lys Gly Glu Glu Cys Pro Ala Gly Ser
45 50 55

cat aga tca gaa cat act gga gcc tgt aac ccg tgc aca 402
His Arg Ser Glu His Thr Gly Ala Cys Asn Pro Cys Thr
60 65 70

SECRET

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Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Ser Ser His

235

2nd 67

<210> 8
<211> 48
<212> PRT
<213> Homo sapiens

<400> 8
Cys Asn Pro Cys Thr Glu Gly Val Asp Tyr Thr Asn Ala Ser Asn
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Asn Glu Pro Ser Cys Phe Pro Cys Thr Val Cys Lys Ser Asp Gln
20 25 30
Lys His Lys Ser Ser Cys Thr Met Thr Arg Asp Thr Val Cys Gln
35 40 45
Cys Lys Glu
48

<210> 9
<211> 70
<212> DNA
<213> Homo sapiens

<400> 9
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gctaaagctg aggcagcggg 70

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<220>
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<222> (140 . . . (1372)
<223>

<220>
<221> Unsure
<222> 1367
<223> W may be adenine or thymine or uracil

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gcgcccacaa aatacaccga cgatgcccga tctactttaa gggctgaaac 100
ccacgggcct gagagactat aagagcgttc cctaccgcca tggaacaacg 150

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2nd cut

0992964-11901

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gacccaggga ggcgcgggga gccaggcctg ggctccgggt cccaagacc 250
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tctgatcacc caacaagacc tagctcccca gcagagagcg gccccacaac 350
aaaagaggtc cagccccctc gagggattgt gtccacctgg acaccatata 400
tcagaagacg gtagagattg catctcctgc aaatatggac aggactatag 450
cactcactgg aatgacctcc tttctctgct gcgctgcacc aggtgtgatt 500
caggtgaagt ggagctaagt ccttgaccca cgaccagaaa cacagtgtgt 550
cagtgcgaag aaggcacctt ccgggaagaa gattctcctg agatgtgccg 600
gaagtgccgc acaggggtgt ccagagggat ggtcaagggt ggtgattgta 650
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ggagtcacag ttgcagccgt agtcttgatt gtggctgtgt ttgtttgcaa 750
gtctttactg tggaagaaag tccttcctta cctgaaaagg atctgctcag 800
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cctttgactc ctgggagccg ctcatgagga agttgggcct catggacaat 1150
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cacgatgctg ataaagtggg tcaacaaaac cgggcgagat gcctctgtcc 1250
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aagattgagg accacttggt gagctctgga aagttcatgt atctagaagg 1350
taatgcagac tctgccwtgt cctaagtgtg attctcttca ggaagtgaga 1400
ccttcctggt ttacactttt ttctggaaaa agcccaactg gactccagtc 1450

DNA

agtaggaaag tgccacaatt gtcacatgac cggtagctgga agaaaactctc 1500
 ccatccaaca tcacccagtg gatggaacat cctgtaactt ttcactgcac 1550
 ttggcattat ttttataagc tgaatgtgat aataaggaca ctatggaaat 1600
 gtctggatca ttccgtttgt gcgtactttg agatttggtt tgggatgtca 1650
 ttgttttcac agcacttttt taccctaagt taaatgcttt atttatttat 1700
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<210> 11
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 <212> PRT
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<220>
 <221> Unsure
 <222> 410
 <223> Xaa may be leucine or methionine

<400> 11
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 Lys Arg His Gly Pro Gly Pro Arg Glu Ala Arg Gly Ala Arg Pro
 20 25 30
 Gly Leu Arg Val Pro Lys Thr Leu Val Leu Val Val Ala Ala Val
 35 40 45
 Leu Leu Leu Val Ser Ala Glu Ser Ala Leu Ile Thr Gln Gln Asp
 50 55 60
 Leu Ala Pro Gln Gln Arg Ala Ala Pro Gln Gln Lys Arg Ser Ser
 65 70 75
 Pro Ser Glu Gly Leu Cys Pro Pro Gly His His Ile Ser Glu Asp
 80 85 90
 Gly Arg Asp Cys Ile Ser Cys Lys Tyr Gly Gln Asp Tyr Ser Thr
 95 100 105
 His Trp Asn Asp Leu Leu Phe Cys Leu Arg Cys Thr Arg Cys Asp
 110 115 120
 Ser Gly Glu Val Glu Leu Ser Pro Cys Thr Thr Thr Arg Asn Thr

Summary

FOUO 492660

				125						130					135
Val	Cys	Gln	Cys	Glu	Glu	Gly	Thr	Phe	Arg	Glu	Glu	Asp	Ser	Pro	
				140					145					150	
Glu	Met	Cys	Arg	Lys	Cys	Arg	Thr	Gly	Cys	Pro	Arg	Gly	Met	Val	
				155					160					165	
Lys	Val	Gly	Asp	Cys	Thr	Pro	Trp	Ser	Asp	Ile	Glu	Cys	Val	His	
				170					175					180	
Lys	Glu	Ser	Gly	Ile	Ile	Ile	Gly	Val	Thr	Val	Ala	Ala	Val	Val	
				185					190					195	
Leu	Ile	Val	Ala	Val	Phe	Val	Cys	Lys	Ser	Leu	Leu	Trp	Lys	Lys	
				200					205					210	
Val	Leu	Pro	Tyr	Leu	Lys	Gly	Ile	Cys	Ser	Gly	Gly	Gly	Gly	Asp	
				215					220					225	
Pro	Glu	Arg	Val	Asp	Arg	Ser	Ser	Gln	Arg	Pro	Gly	Ala	Glu	Asp	
				230					235					240	
Asn	Val	Leu	Asn	Glu	Ile	Val	Ser	Ile	Leu	Gln	Pro	Thr	Gln	Val	
				245					250					255	
Pro	Glu	Gln	Glu	Met	Glu	Val	Gln	Glu	Pro	Ala	Glu	Pro	Thr	Gly	
				260					265					270	
Val	Asn	Met	Leu	Ser	Pro	Gly	Glu	Ser	Glu	His	Leu	Leu	Glu	Pro	
				275					280					285	
Ala	Glu	Ala	Glu	Arg	Ser	Gln	Arg	Arg	Arg	Leu	Leu	Val	Pro	Ala	
				290					295					300	
Asn	Glu	Gly	Asp	Pro	Thr	Glu	Thr	Leu	Arg	Gln	Cys	Phe	Asp	Asp	
				305					310					315	
Phe	Ala	Asp	Leu	Val	Pro	Phe	Asp	Ser	Trp	Glu	Pro	Leu	Met	Arg	
				320					325					330	
Lys	Leu	Gly	Leu	Met	Asp	Asn	Glu	Ile	Lys	Val	Ala	Lys	Ala	Glu	
				335					340					345	
Ala	Ala	Gly	His	Arg	Asp	Thr	Leu	Tyr	Thr	Met	Leu	Ile	Lys	Trp	
				350					355					360	
Val	Asn	Lys	Thr	Gly	Arg	Asp	Ala	Ser	Val	His	Thr	Leu	Leu	Asp	
				365					370					375	
Ala	Leu	Glu	Thr	Leu	Gly	Glu	Arg	Leu	Ala	Lys	Gln	Lys	Ile	Glu	

SECRET

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Put away

FOUO "49626560"

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Lys	Ser	Asp	Glu	Glu	Glu	Arg	Ser	Pro	Cys	Thr	Thr	Thr	Arg	Asn	
				125					130					135	
Thr	Ala	Cys	Gln	Cys	Lys	Pro	Gly	Thr	Phe	Arg	Asn	Asp	Asn	Ser	
				140					145					150	
Ala	Glu	Met	Cys	Arg	Lys	Cys	Ser	Thr	Gly	Cys	Pro	Arg	Gly	Met	
				155					160					165	
Val	Lys	Val	Lys	Asp	Cys	Thr	Pro	Trp	Ser	Asp	Ile	Glu	Cys	Val	
				170					175					180	
His	Lys	Glu	Ser	Gly	Asn	Gly	His	Asn	Ile	Trp	Val	Ile	Leu	Val	
				185					190					195	
Val	Thr	Leu	Val	Val	Pro	Leu	Leu	Leu	Val	Ala	Val	Leu	Ile	Val	
				200					205					210	
Cys	Cys	Cys	Ile	Gly	Ser	Gly	Cys	Gly	Gly	Asp	Pro	Lys	Cys	Met	
				215					220					225	
Asp	Arg	Val	Cys	Phe	Trp	Arg	Leu	Gly	Leu	Leu	Arg	Gly	Pro	Gly	
				230					235					240	
Ala	Glu	Asp	Asn	Ala	His	Asn	Glu	Ile	Leu	Ser	Asn	Ala	Asp	Ser	
				245					250					255	
Leu	Ser	Thr	Phe	Val	Ser	Glu	Gln	Gln	Met	Glu	Ser	Gln	Glu	Pro	
				260					265					270	
Ala	Asp	Leu	Thr	Gly	Val	Thr	Val	Gln	Ser	Pro	Gly	Glu	Ala	Gln	
				275					280					285	
Cys	Leu	Leu	Gly	Pro	Ala	Glu	Ala	Glu	Gly	Ser	Gln	Arg	Arg	Arg	
				290					295					300	
Leu	Leu	Val	Pro	Ala	Asn	Gly	Ala	Asp	Pro	Thr	Glu	Thr	Leu	Met	
				305					310					315	
Leu	Phe	Phe	Asp	Lys	Phe	Ala	Asn	Ile	Val	Pro	Phe	Asp	Ser	Trp	
				320					325					330	
Asp	Gln	Leu	Met	Arg	Gln	Leu	Asp	Leu	Thr	Lys	Asn	Glu	Ile	Asp	
				335					340					345	
Val	Val	Arg	Ala	Gly	Thr	Ala	Gly	Pro	Gly	Asp	Ala	Leu	Tyr	Ala	
				350					355					360	

Sub G1

Met Leu Met Lys Trp Val Asn Lys Thr Gly Arg Asn Ala Ser Ile
365 370 375

His Thr Leu Leu Asp Ala Leu Glu Arg Met Glu Glu Arg His Ala
380 385 390

Lys Glu Lys Ile Gln Asp Leu Leu Val Asp Ser Gly Lys Phe Ile
395 400 405

Tyr Leu Glu Asp Gly Thr Gly Ser Ala Val Ser Leu Glu
410 415 418

<210> 15

<211> 74

<212> PRT

<213> Homo sapiens

<400> 15

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20 25 30

Ile Gly Arg Phe Arg Asp Gln Gln Tyr Glu Met Leu Lys Arg Trp
35 40 45

Arg Gln Gln Gln Pro Ala Gly Leu Gly Ala Val Tyr Ala Ala Leu
50 55 60

Glu Arg Met Gly Leu Asp Gly Cys Val Glu Asp Leu Arg Ser
65 70 74

<210> 16

<211> 78

<212> PRT

<213> Homo sapiens

<400> 16

Val Val Glu Asn Val Pro Pro Leu Arg Trp Lys Glu Phe Val Arg
1 5 10 15

Arg Leu Gly Leu Ser Asp His Glu Ile Asp Arg Leu Glu Leu Gln
20 25 30

Asn Gly Arg Cys Leu Arg Glu Ala Gln Tyr Ser Met Leu Ala Thr
35 40 45

Trp Arg Arg Arg Thr Pro Arg Arg Glu Ala Thr Leu Glu Leu Leu
50 55 60

DeWalt

Gly Arg Val Leu Arg Asp Met Asp Leu Leu Gly Cys Leu Glu Asp
65 70 75

Ile Glu Glu
78

<210> 17

<211> 77

<212> PRT

<213> Homo sapiens

<400> 17

Ile Ala Gly Val His Thr Leu Ser Gln Val Lys Gly Phe Val Arg
1 5 10 15

Lys Asn Gly Val Asn Glu Ala Lys Ile Asp Glu Ile Lys Asn Asp
20 25 30

Asn Val Gln Asp Thr Ala Glu Gln Lys Val Gln Leu Leu Arg Asn
35 40 45

Trp His Gln Leu His Gly Lys Lys Glu Ala Tyr Asp Thr Leu Ile
50 55 60

Lys Asp Leu Lys Lys Ala Asn Leu Cys Thr Leu Ala Glu Lys Ile
65 70 75

Gln Thr
77